

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/591,632 C
Source: 1Fu16
Date Processed by STIC: 2/7/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/591,632C</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input checked="" type="checkbox"/> Wrapped Nucleics <input checked="" type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <input checked="" type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input checked="" type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules , each n or Xaa can only represent a single residue . Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input checked="" type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input checked="" type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input checked="" type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input checked="" type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006
TIME: 09:01:23

Input Set : A:\34978a.txt
Output Set: N:\CRF4\02072006\I591632C.raw

3 <110> APPLICANT: Lindquist, et al.
5 <120> TITLE OF INVENTION: RECOMBINANT PRION-LIKE GENES AND PROTEINS AND MATERIALS AND
6 METHODS COMPRISING SAME
8 <130> FILE REFERENCE: 30554/34978A
(see item 2 on
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/591,632C Error
C--> 10 <141> CURRENT FILING DATE: 2000-06-09
10 <150> PRIOR APPLICATION NUMBER: US 09/591,632
19 <151> PRIOR FILING DATE: 2000-06-09
10 <150> PRIOR APPLICATION NUMBER: US 60/138,833
14 <151> PRIOR FILING DATE: 1999-06-09
16 <160> NUMBER OF SEQ ID NOS: 70
18 <170> SOFTWARE: PatentIn version 3.3
delete -
these are
not prior
data. They
summary
sheet)

ERRORED SEQUENCES

429 <210> SEQ ID NO: 3
430 <211> LENGTH: 1427 1426 (p.3) Not Comply
431 <212> TYPE: DNA
432 <213> ORGANISM: *Saccharomyces cerevisiae* Corrected Diskette
434 <220> FEATURE:
435 <221> NAME/KEY: CDS
436 <222> LOCATION: (182)..(1246)
438 <400> SEQUENCE: 3
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441 tatacgactg aattgaatcg aagaggaata aagatcccc gtacgaactt ctttattttt
443 agttttcat tttttgttat tagtcatatt gtttaagct gcaaattaag ttgtacacca
445 a atg atg aat aac aac ggc aac caa gtg tcg aat ctc tcc aat gcg ctc
446 Met Met Asn Asn Asn Gly Asn Gln Val Ser Asn Leu Ser Asn Ala Leu
447 1 5 10 15
449 cgt caa gta aac ata gga aac agg aac agt aat aca acc acc gat caa
450 Arg Gln Val Asn Ile Gly Asn Arg Asn Ser Asn Thr Thr Asp Gln
451 20 25 30
453 agt aat ata aat ttt gaa ttt tca aca ggt gta aat aat aat aat aat
454 Ser Asn Ile Asn Phe Glu Phe Ser Thr Gly Val Asn Asn Asn Asn Asn
455 35 40 45
457 aac aat agc agt agt aat aac aat aat gtt caa aac aat aac agc ggc
458 Asn Asn Ser Ser Asn Asn Asn Val Gln Asn Asn Asn Ser Gly
459 50 55 60
461 cgc aat ggt agc caa aat aat gat aac gag aat aat atc aag aat acc
462 Arg Asn Gly Ser Gln Asn Asn Asp Asn Glu Asn Asn Ile Lys Asn Thr
463 65 70 75 80
465 tta qaa caa cat cqa caa caa caa caq gca ttt tcg gat atg agt cac

**Does Not Comply
Corrected Diskette Needed**

pp 1, 3, 5-6, 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

466	Leu	Glu	Gln	His	Arg	Gln	Gln	Gln	Gln	Ala	Phe	Ser	Asp	Met	Ser	His	
467						85				90				95			
469	gtg	gag	tat	tcc	aga	att	aca	aaa	ttt	ttt	caa	gaa	caa	cca	ctg	gag	517
470	Val	Glu	Tyr	Ser	Arg	Ile	Thr	Lys	Phe	Phe	Gln	Glu	Gln	Pro	Leu	Glu	
471						100				105				110			
473	gga	tat	acc	ctt	ttc	tct	cac	agg	tct	gcg	cct	aat	gga	ttc	aaa	gtt	565
474	Gly	Tyr	Thr	Leu	Phe	Ser	His	Arg	Ser	Ala	Pro	Asn	Gly	Phe	Lys	Val	
475						115				120				125			
477	gct	ata	gta	cta	agt	gaa	ctt	gga	ttt	cat	tat	aac	aca	atc	ttc	cta	613
478	Ala	Ile	Val	Leu	Ser	Glu	Leu	Gly	Phe	His	Tyr	Asn	Thr	Ile	Phe	Leu	
479						130				135				140			
481	gat	ttc	aat	ctt	ggc	gaa	cat	agg	gcc	ccc	gaa	ttt	gtg	tct	gtg	aac	661
482	Asp	Phe	Asn	Leu	Gly	Glu	His	Arg	Ala	Pro	Glu	Phe	Val	Ser	Val	Asn	
483	145					150					155				160		
485	cct	aat	gca	aga	gtt	cca	gct	tta	atc	gat	cat	ggt	atg	gac	aac	ttg	709
486	Pro	Asn	Ala	Arg	Val	Pro	Ala	Leu	Ile	Asp	His	Gly	Met	Asp	Asn	Leu	
487						165				170				175			
489	tct	att	tgg	gaa	tca	ggg	gcg	att	tta	tta	cat	ttg	gta	aat	aaa	tat	757
490	Ser	Ile	Trp	Glu	Ser	Gly	Ala	Ile	Leu	Leu	His	Leu	Val	Asn	Lys	Tyr	
491						180				185				190			
493	tac	aaa	gag	act	ggt	aat	cca	tta	ctc	tgg	tcc	gat	gat	tta	gct	gac	805
494	Tyr	Lys	Glu	Thr	Gly	Asn	Pro	Leu	Leu	Trp	Ser	Asp	Asp	Leu	Ala	Asp	
495		195				200					205						
497	caa	tca	caa	atc	aac	gca	tgg	ttg	tcc	ttc	caa	acg	tca	ggg	cat	gcg	853
498	Gln	Ser	Gln	Ile	Asn	Ala	Trp	Leu	Phe	Phe	Gln	Thr	Ser	Gly	His	Ala	
499		210				215					220						
501	cca	atg	att	gga	caa	gct	tta	cat	ttc	aga	tac	ttc	cat	tca	caa	aag	901
502	Pro	Met	Ile	Gly	Gln	Ala	Leu	His	Phe	Arg	Tyr	Phe	His	Ser	Gln	Lys	
503	225					230				235				240			
505	ata	gca	agt	gct	gta	gaa	aga	tat	acg	gat	gag	gtt	aga	aga	gtt	tac	949
506	Ile	Ala	Ser	Ala	Val	Glu	Arg	Tyr	Thr	Asp	Glu	Val	Arg	Arg	Val	Tyr	
507						245				250				255			
509	ggt	gta	gtg	gag	atg	gcc	ttg	gct	gaa	cgt	aga	gaa	gcg	ctg	gtg	atg	997
510	Gly	Val	Val	Glu	Met	Ala	Leu	Ala	Glu	Arg	Arg	Glu	Ala	Leu	Val	Met	
511		260				265				270							
513	gaa	tta	gac	acg	gaa	aat	gcg	gct	gca	tac	tca	gct	ggt	aca	aca	cca	1045
514	Glu	Leu	Asp	Thr	Glu	Asn	Ala	Ala	Ala	Tyr	Ser	Ala	Gly	Thr	Thr	Pro	
515		275				280					285						
517	atg	tca	caa	agt	cgt	ttc	ttt	gat	tat	ccc	gta	tgg	ctt	gta	gga	gat	1093
518	Met	Ser	Gln	Ser	Arg	Phe	Phe	Asp	Tyr	Pro	Val	Trp	Leu	Val	Gly	Asp	
519		290				295					300						
521	aaa	tta	act	ata	gca	gat	ttg	gcc	ttt	gtc	cca	tgg	aat	aat	gtc	gtg	1141
522	Lys	Leu	Thr	Ile	Ala	Asp	Leu	Ala	Phe	Val	Pro	Trp	Asn	Asn	Val	Val	
523	305					310				315				320			
525	gat	aga	att	ggc	att	aat	atc	aaa	att	gaa	ttt	cca	gaa	gtt	tac	aaa	1189
526	Asp	Arg	Ile	Gly	Ile	Asn	Ile	Lys	Ile	Glu	Phe	Pro	Glu	Val	Tyr	Lys	
527						325				330				335			
529	tgg	acg	aag	cat	atg	atg	aga	aga	ccc	gcg	gtc	atc	aag	gca	ttg	cgt	1237
530	Trp	Thr	Lys	His	Met	Met	Arg	Arg	Pro	Ala	Val	Ile	Lys	Ala	Leu	Arg	

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 Output Set: N:\CRF4\02072006\I591632C.raw

531	340	345	350	
533	ggt ggà tga aggctgcttt	aaaaacaaga aagaaagaag	aaggaggaaaa	1286
534	Gly Gly			
537	agaaggat	atataggcag	acaaaaagga aaattaagt	caaataaaa 1346
539	caaaaatgtc	atagaagtat	ataatagtt tgaaatttct	tttattcttt 1406
E--> 541	gttaccccaa ccacagaatt			1427 1426
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725	<211> LENGTH: 446	445		
726	<212> TYPE: DNA			
727	<213> ORGANISM: Artificial sequence			
729	<220> FEATURE:			
730	<223> OTHER INFORMATION: CUP1 promoter			
732	<400> SEQUENCE: 11			
733	ccattaccga catttggcg	ctatacgtgc atatgttcat	gtatgtatct gtattttaaaa	60
735	cactttgtat	ttattttcc tcataatatgt	gtataggttt atacggatga	tttaatttatt 120
737	acttcaccac	cctttatccc aggctgat	cttagccttg ttactagttt	gaaaaagaca 180
739	ttttgctgt	cagtcactgt	caagagatc ttttgcgc	atttcttcta gaagaaaaaa 240
741	gagcgatgcg	tctttccgc tgaaccgttc	cagcaaaaaa gactaccaac	gcaatatgga 300
743	ttgtcagaat	catataaaag aagaagcaaa	taactccttg tcttgtatca	attgcattat 360
745	atatcttctt	gttagtgca	tatcatatag aagtcatcgaa	aatagatatt aagaaaaaca 420
E--> 747	aactgtacaa tcaatcaatc	aatca		445
3712	<210> SEQ ID NO: 45			
3713	<211> LENGTH: 7239	7238 (pp 5-6)		
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3715	<213> ORGANISM: Artificial sequence			
3717	<220> FEATURE:			
3718	<223> OTHER INFORMATION: Vector containing chimeric gene			
3720	<400> SEQUENCE: 45			
3721	gacgaaaggg cctcgtgata	cgcctat	tataggtaa tgtcatgata	ataatggttt 60
3723	cttaggacgg atcgctgccc	tgtaacttac	acgcgcctcg tatctttaa	tgtggataa 120
3725	atttggaaat ttactctgt	tttattttt	tttatgtttt gtatttggat	tttagaaagt 180
3727	aaataaagaa ggtagaagag	ttacggatg	aagaaaaaaa aataaacaaa	ggttaaaaaa 240
3729	atttcaacaa aaagcgta	ttacatata	atttattaga caagaaaagc	agattaaata 300
3731	gatatacatt cgattaacga	taagtaaaat	gtaaaatcac aggatttgc	tgtgtggct 360
3733	tctcacacaga caagatgaaa	caattcggca	ttaatacctg agagcaggaa	gagcaagata 420
3735	aaaggtagta ttttgtggcg	atccccctag	agtctttac atcttcggaa	aacaaaaact 480
3737	atttttctt taatttctt	ttttactt	tattttaat ttatataattt	atattaaaaa 540
3739	atttaaatta taatttattt	tatagcacgt	gtgaaaagg acccaggtgg	cactttcgg 600
3741	ggaaatgtgc	gcggAACCC	tatttgtta ttttctaaa	tacattcaaa tatgtatccg 660
3743	ctcatgagac aataaccctg	ataaatgctt	caataatatt gaaaaaggaa	gagtatgagt 720
3745	attcaacatt tcgggtgc	ccttattccc	tttttgcgg cattttgcct	tcctgtttt 780
3747	gctcacccag aaacgctgg	gaaagtaaaa	gatgctgaag atcagttgg	tgcacgagtg 840
3749	ggttacatcg aactggatct	caacagcggt	aagatccttg agagtttgc	ccccgaagaa 900
3751	cgtttccaa tggatgac	ttttaaagtt	ctgctatgtg	gcgcggattt atcccgtatt 960
3753	gacgcccggc aagagcaact	cggtcgccgc	atacactatt ctcagaatga	cttggttgag 1020
3755	tactcaccag tcacagaaaa	gcatcttacg	gatggcatga cagtaagaga	attatgcagt 1080
3757	gctgccataa ccatgagtga	taacactgcg	gccaaacttac ttctgacaac	gatcgagga 1140
3759	ccgaaggagc taaccgctt	tttgcacaac	atgggggatc atgtaactcg	ccttgatcg 1200
3761	tggaaaccgg agctgaatga	agccatacca	aacgacgagc	gatgcctgta 1260

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PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006
TIME: 09:01:23

Input Set : A:\34978a.txt
Output Set: N:\CRF4\02072006\I591632C.raw

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3765	caacaattaa	tagactggat	ggaggcggat	aaagttgcag	gaccacttct	gctcggcc	1380
3767	cttccggctg	gctggtttat	tgctgataaaa	tctggagccg	gtgagcgtgg	gtctcgcggt	1440
3769	atcattgcag	cactggggcc	agatggtaag	ccctcccgta	tcgtagttat	ctacacgacg	1500
3771	gggagtcagg	caactatgga	tgaacgaaat	agacagatcg	ctgagatagg	tgcctcaactg	1560
3773	attaaggcatt	ggtaactgtc	agaccaagtt	tactcatata	tacttttagat	tgatttaaaa	1620
3775	cttcattttt	aattttaaag	gatctaggtg	aagatccctt	ttgataatct	catgaccaaa	1680
3777	atcccttaac	gtgagtttc	gttccactga	gcgtcagacc	ccgtagaaaa	gatcaaaggaa	1740
3779	tcttcttgag	atcctttttt	tctgcgcgta	atctgctgct	tgcaaaacaaa	aaaaccaccc	1800
3781	ctaccagcgg	tgggttgtt	gcccgtatcaa	gagctaccaa	ctcttttcc	gaaggttaact	1860
3783	ggcttcagca	gagcgcagat	accaaatact	gtccttctag	tgtagccgta	gttaggccac	1920
3785	cacttcaaga	actctgttagc	accgcctaca	tacctcgctc	tgctaattct	gttaccagtg	1980
3787	gctgctgcca	gtggcgataa	gtcgtgtctt	accgggttgg	actcaagacg	atagttaccg	2040
3789	gataaggcgc	agcggtcggg	ctgaacgggg	ggttcgtgca	cacagcccg	cttggagcga	2100
3791	acgacactaca	ccgaaactgag	atacctacag	cgtgagctat	gagaaagcgc	cacgcttccc	2160
3793	gaagggagaa	aggcggacag	gtatccggta	agcggcaggg	tcggaacacagg	agagcgcacg	2220
3795	agggagcttc	cagggggaaa	cgcctggtat	ctttagatgc	ctgtcggtt	tcgcccacctc	2280
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3805	ccaatacgc	aaccgcctct	ccccgcgcgt	tggccgattc	attaatgcag	ctggcacgcac	2580
3807	aggtttcccg	actggaaagc	gggcagtgag	cgcaacgc	ttaatgtgag	ttacact	2640
3809	cattaggcac	cccaggctt	acactttatg	cttccggctc	gtatgttgc	tggaatttgc	2700
3811	agcggataac	aatttcacac	aggaaacagc	tatgaccatg	attacgc	gctcggaatt	2760
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3827	tcttgtatca	attgcattat	aatatcttct	tgttagtgca	atatcatata	gaagtcatcg	3240
3829	aaatagat	taagaaaaac	aaactgtaca	atcaatcaat	caatcaggat	ccatggata	3300
3831	ggataagtt	atctcagagg	ctgagtc	tttttctca	ggaaaccatg	cagaagctgt	3360
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3835	atcattaatt	caaaaaatcg	caggatacgt	catggacaac	cgtagtggt	gtagtgacgc	3480
3837	ctcgcaagat	cgtgctgctg	gtgggtgtt	atctttatg	aacactttaa	ttgcagactc	3540
3839	taagggttct	tcccaaacgc	aactaggaaa	actagcttt	ttagccacag	tgtatgacaca	3600
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3853	caacaatagt	caacagggtt	ataaccaatc	ctatcaaaac	ggtacacaaa	atagtcaagg	4020
3855	ttacaataat	caacagtacc	aagggtgca	cggtggttac	caacaacaac	agggacaatc	4080
3857	tggtggtgct	ttttcctcat	tggcctccat	ggctcaatct	tacttagtg	gtggacaaac	4140
3859	tcaatccaac	caacagcaat	acaatcaaca	aggccaaaac	aaccagcagc	aataccagca	4200

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006
TIME: 09:01:23

Input Set : A:\34978a.txt
Output Set: N:\CRF4\02072006\I591632C.raw

group of 9 ↑ numbers off

3861	acaaggccaa	aactatcagc	accaacaaca	gggtcagcag	cagcaacaag	gccactccag	4260
3863	ttcattctca	gcttggctt	ccatggcaag	ttcctacctg	ggcaataact	ccaattcaaa	4320
3865	ttcgagttat	ggggccagc	aacaggctaa	ttagtatggt	agaccacaaac	acaatggta	4380
3867	acaacaatct	aatqagtacg	gaagaccgca	atacggcga	aaccagaact	ccaatggaca	4440
E--> 3869	gcacgaatcc	tttaatttt	ctggcaactt	ttctcaacag	aacaataacg	gcaaccagaa	4500 4499
E--> 3871	ccgctacccg	cggatggcta	gcaaaggaga	agaactcttc	actggagtt	tcccaattct	4560
E--> 3873	tgttgaatta	gatggtgatg	ttaatggca	caaattttct	gtcagtgagg	agggtgaagg	4620
E--> 3875	tgatgcaaca	tacggaaaac	ttacccttaa	atttatttgc	actactggaa	aactacctgt	4680
E--> 3877	tccatggcca	acacttgtca	ctactttcac	ttatgggtt	cagtgcctt	caagatacc	4740
E--> 3879	ggatcatatg	aaacggcatg	acttttcaa	gagtgcctg	cccgaaggtt	atgtacagga	4800
E--> 3881	aagaactata	tttttcaag	atgacggaa	ctacaagaca	cgtgctgaag	tcaagtttga	4860
E--> 3883	aggtgatacc	cttgtaata	gaatcgagtt	aaaaggtatt	gatttaaag	aagatggaaa	4920
E--> 3885	cattcttggg	cacaaattgg	aatacaacta	taactcacac	aatgtataca	tcatggcaga	4980
E--> 3887	caaacaaaag	aatggaatca	aagctaactt	caaaattaga	cacaacattg	aagatggaaag	5040
E--> 3889	cgttcaacta	gcagaccatt	atcaacaaaa	tactccaatt	ggcgatggcc	ctgtcccttt	5100
E--> 3891	accagacaac	cattacctgt	ccacacaatc	tgcccttgc	aaagatccc	acgaaaagag	5160
E--> 3893	agaccacatg	gtccttcttg	agtttgtAAC	agctgctggg	attacacatg	gcatggatga	5220
E--> 3895	actataaaaa	tgagagctcc	aattcgccct	atagttagtc	gtattacaat	tcaactggccg	5280
E--> 3897	tcgttttaca	acgtcgta	tggaaaaacc	ctggcgta	ccaaacttaat	cgccttgcag	5340
E--> 3899	cacatcccc	tttcgcccagc	tggcgtaata	gcaagaggc	ccgcaccgat	cgcccttccc	5400
E--> 3901	aacagttcg	cagcctgaat	ggcgaatggc	gcaacgcgc	ctgtagcgcc	gcattaageg	5460
E--> 3903	cggcggtgt	ggtggttacg	cgcagcgta	ccgctacact	tgccagcgcc	ctagcgcccc	5520
E--> 3905	ctccttgc	tttcttccct	tcctttctcg	ccacgttcgc	cggtttccc	cgtaagctc	5580
E--> 3907	taaatcgggg	gtcccttta	gggttccgat	ttagtgctt	acggcacctc	gacccaaaaa	5640
E--> 3909	aacttgatta	gggtgatggt	tcacgtatg	ggccatcgcc	ctgatagacg	gttttcgccc	5700
E--> 3911	cttgcacgtt	ggagtccacg	ttctttaata	gtggactctt	gttccaaact	ggaacaacac	5760
E--> 3913	tcaaccctat	ctcggtctat	tcttttgatt	tataaggat	tttgcgatt	tccgcctatt	5820
E--> 3915	ggtaaaaaaaaa	tgagctgatt	taacaaaaat	ttaacgcgaa	tttaacaaa	atattaacgt	5880
E--> 3917	ttacaatttc	ctgatgcgg	atttctcct	tacgcacatg	tgccgtat	cacaccgcac	5940
E--> 3919	aggtaataaa	ctgatataat	taaattgaag	ctctaatttgc	ttagtttagt	atacatgcac	6000
E--> 3921	ttacttataa	tacagtttt	tagtttgct	ggccgcacatc	tctcaaatat	gttcccagc	6060
E--> 3923	ctgctttct	gtacgttca	ccctctacat	tagcatccct	tccctttgc	aatagtcctc	6120
E--> 3925	ttccaacaat	aataatgtca	gatcctgtat	agaccacatc	atccacgggtt	ctataactgtt	6180
E--> 3927	gacccaatgc	gtctcccttg	tcatctaaac	ccacaccggg	tgtcataatc	aaccaatcg	6240
E--> 3929	aacccatc	tcttccaccc	atgtcttt	gagaataaaa	gccgataaca	aaatctttgt	6300
E--> 3931	cgtcttcgc	aatgtcaaca	gtacccttag	tatattctcc	agtagatagg	gagcccttgc	6360
E--> 3933	atgacaattc	tgctaacatc	aaaaggcctc	tagttccctt	tgttacttct	tctgccccct	6420
E--> 3935	gcttcaaacc	gctaacaata	cctggccca	ccacaccgtg	tgcattcgta	atgtctgccc	6480
E--> 3937	attctgctat	tctgtataca	cccgacagt	actgcattt	gactgtat	ccaatgtcag	6540
E--> 3939	caaattttct	gtcttcgaag	agtaaaaaat	tgtacttggc	ggataatgcc	tttagcggt	6600
E--> 3941	taacttgcc	ctccatggaa	aaatcagtca	agatatccac	atgtttttt	agtaaaca	6660
E--> 3943	tttgggacc	taatgctca	actaactcca	gtaattccctt	ggtggatcg	acatccaatg	6720
E--> 3945	aagcacacaa	gtttgttgc	ttttcgatc	tgatattaaa	tagttggc	gcaacaggac	6780
E--> 3947	tagatgagt	agcagcacgt	tccttatatg	tagtttcga	catgatttat	cttcgtttcc	6840
E--> 3949	tgcaggttt	tgttctgtgc	agttgggtt	agaataactgg	gcaatttcat	gtttcttca	6900
E--> 3951	cactacat	gcgtatataat	accaatctaa	gtctgtgc	cttccttcgt	tcttccttct	6960
E--> 3953	gttcggagat	taccaatca	aaaaaatttc	aaagaaaccg	aaatcaaaaa	aaagaataaa	7020
E--> 3955	aaaaaaatga	tgaattgaat	tgaaaagctg	tggatgggt	cactctcagt	acaatctgc	7080
E--> 3957	ctgatgcgc	atagttaa	cagccccgac	acccgccaac	acccgctgac	gcccctgac	7140

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

E--> 3959 gggcttgc tgcgttaca gacaagctgt gaccgtctcc gggagctgca

7200

E--> 3961 tgtgtcagag gttttcacccg tcatcacccg aacgcgcga

7239

has
off

from sequence 39

09/59, 632C

7

gta aca gct gct ggg att aca cat ggc atg gat gaa cta tac aaa tga 720
Val Thr Ala Ala Gly Ile Thr His Gly Met Asp glu Leu Tyr Lys
225 230 235

240 *delete, since
no amino
acid
is shown*

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006
TIME: 09:01:24

Input Set : A:\34978a.txt
Output Set: N:\CRF4\02072006\I591632C.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:541 M:254 E: No. of Bases conflict, LENGTH:Input:1427 Counted:1426 SEQ:3
L:541 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1427 Found:1426 SEQ:3
L:747 M:252 E: No. of Seq. differs, <211> LENGTH:Input:446 Found:445 SEQ:11
L:3593 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:39
L:3869 M:254 E: No. of Bases conflict, LENGTH:Input:4500 Counted:4499 SEQ:45
M:254 Repeated in SeqNo=45
L:3961 M:252 E: No. of Seq. differs, <211> LENGTH:Input:7239 Found:7238 SEQ:45